

DEPARTMENT OF  
REGISTRATION AND EDUCATIONRONALD E. STACKLER  
DIRECTOR, SPRINGFIELDBOARD OF  
NATURAL RESOURCES  
AND CONSERVATION

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BIOLOGY ..... THOMAS PARK

CHEMISTRY ..... H. S. GUTOWSKY

ENGINEERING ... ROBERT M. ANDERSON

FORESTRY ..... CHARLES E. OLMSTED

GEOLOGY ..... LAURENCE L. SLOSS

SOUTHERN ILLINOIS UNIVERSITY .....

ELBERT H. MADLEY

UNIVERSITY OF ILLINOIS .....

WILLIAM L. EVERITT

## Illinois State Water Survey

WATER RESOURCES BUILDING •  
605 E. SPRINGFIELD, CHAMPAIGN

MAIL BOX 232, URBANA, ILLINOIS 61801 •

AREA CODE 217

PHONE 233-2210

WILLIAM C. ACKERMANN, CHIEF

April 8, 1975

REPORT ON GROUNDWATER CONDITIONS  
IN SECTION 4, T. 44N., R. 2E.,  
WINNEBAGO COUNTY, ILLINOIS  
By

EPA Region 5 Records Ctr.



358626

James P. Gibb, Assistant Engineer

This report on the availability of groundwater for a supplemental municipal supply for the City of Loves Park in Section 4, T. 44N., R. 2E., Winnebago County, is prepared at the request of Loves Park Water Department, 5440 Walker Avenue, Loves Park, Illinois 61111.

The enclosed data on the municipal wells at Rockford, North Park, and Loves Park generally describe the groundwater conditions in the area of interest. West of the location of interest along the Rock River and over a preglacial bedrock valley extensive sand and gravel deposits are tapped as a source for municipal and industrial supplies. However, as indicated in the attached geologic report, the area of interest lies on a bedrock upland and only limited quantities of water (less than 15 or 20 gpm) can generally be developed from the sand and gravel deposits present in this area.

The existing Loves Park Well No. 3 taps the St. Peter, Iron-ton-Galesville, and Eau Claire Sandstones at a depth of 863 feet (bottom elevation near sea level). The reported yield of this well is from 800 to 1000 gpm.

The mineral quality of water from this well is illustrated on the enclosed analysis (see Lab. No. 03726). The water is hard, contains little or no iron, and is only moderately mineralized (300 to 350 mg/l total dissolved minerals).

Larger quantities of water (from 1000 to 2500 gpm) have been developed by several wells tapping the St. Peter, Iron-ton-Galesville, Eau Claire, and underlying Mt. Simon Sandstones. Wells tapping these units range in depth from about 1200 to 1600 feet and are generally finished near elevations 450 to 500 feet below mean sea level.

Water obtained from these wells is only slightly more mineralized than that obtained from the shallower bedrock units. Hardness ranges

from 300 to 350 mg/l, iron 0.1 to 1.0 mg/l, and total dissolved minerals from 350 to 400 mg/l.

In summary, the chances for developing the desired supply at the location of interest appear good. One well penetrating into the Eau Claire rocks at depths from about 800 to 900 feet should be capable of yielding from 500 to 750 gpm. If a larger quantity of water is desired, a well penetrating into the underlying Mt. Simon rocks at a depth of 1300 to 1350 feet should be capable of yielding from 1000 to 2000 gpm.

Jack A. Simon



# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

## DIVISION OF PUBLIC WATER SUPPLIES

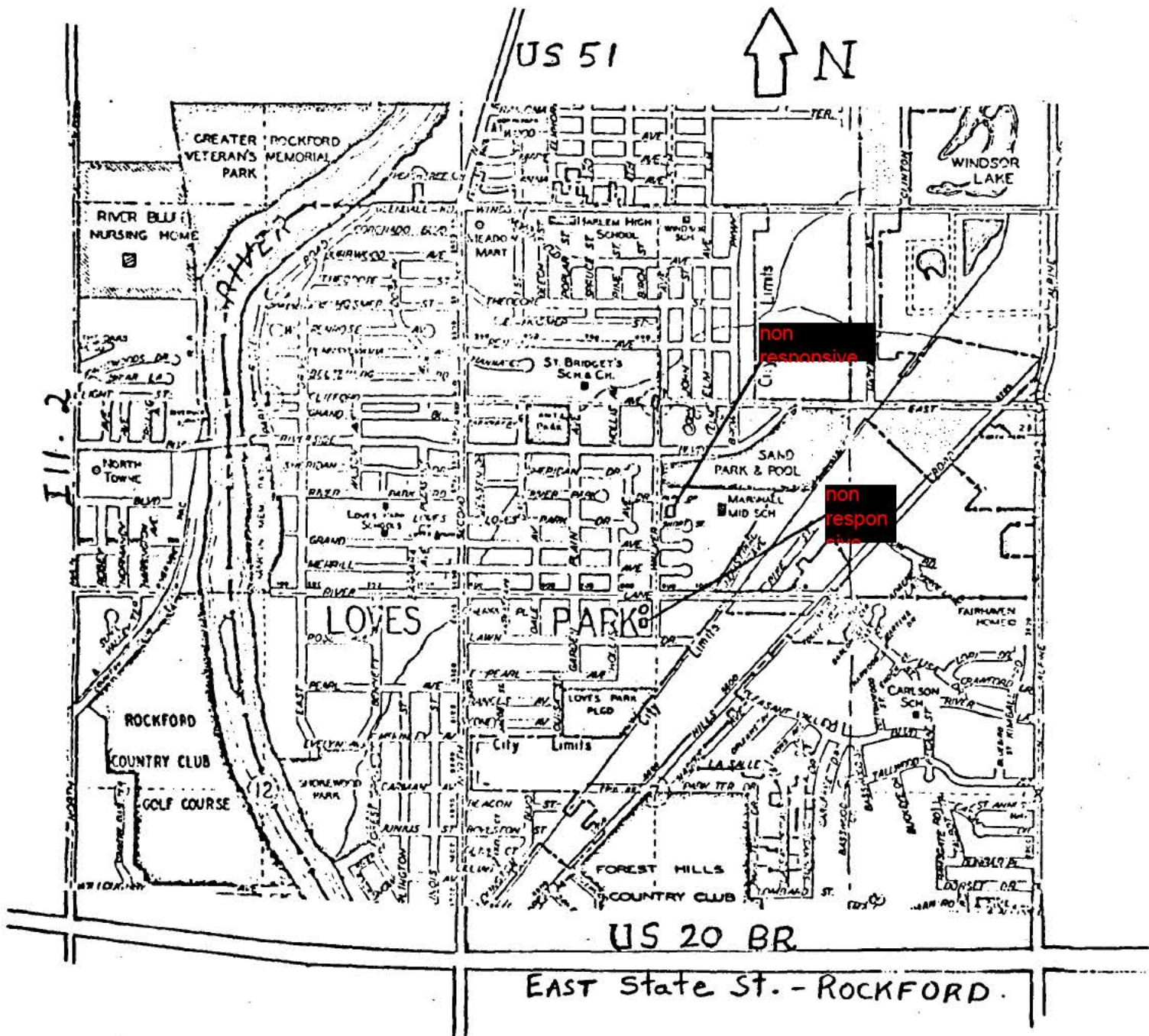
### Inventory Sheet

Date inventoried 1/11/74

Supply: **LOVES PARK**

Sheet 1 of 23

Item: **LOCATION**



WV - Loves Park #4

## State Water Survey Division

# ENR



Water Resources Building  
605 East Springfield Avenue  
P.O. Box 5050, Station A  
Champaign, Illinois 61820  
217/333-2211

Illinois Department of  
Energy and Natural Resources

May 8, 1984

Mr. Dennis P. McKenna  
Executive Director  
Winnebago County Soil and Water Conservation District  
3820 Auburn St.  
Rockford, Illinois 61103

Dear Mr. McKenna:

The Water Use Act of 1983 has required the Illinois State Water Survey to evaluate the potential impacts of proposed wells designed to pump 100,000 gallons per day (70 gallons per minute) or more. You have submitted to us information on the Loves Park Well #4 [redacted] non [redacted] [redacted] non Winnebago County. The well has a design capacity of 2000 gpm, is 1313 feet deep, and is completed in the Cambrian-Ordovician aquifer.

Well records of the area indicate that overlying the Cambrian-Ordovician aquifer are the Shallow Dolomite aquifer and an unconsolidated sand and gravel aquifer. Our records indicate that within a half mile radius of Well #4 there are numerous wells finished in the Shallow Dolomite and sand and gravel aquifers. Also, the closest well finished in the same aquifer is Loves Park Well #3 [redacted] no [redacted].

Based on our evaluation of the available data we conclude that the wells finished in the overlying Shallow Dolomite or sand and gravel aquifer should not be affected by Loves Park Well #4. Furthermore, the Loves Park Well #3 finished in the same aquifer as that of Well #4 will exhibit approximately 16 to 69 feet of additional drawdown as a result of well interference by Well #4. The exact amount will depend on how Well #4 is to be used. These amounts were determined from distance-drawdown curves for the Loves Park Well #4 pumping at the design capacity for 3 days and 365 days. Although the well may not be pumped at the 2000 gpm design rate or the selected time period, the data was used because it yields a range of minimum and maximum estimates of the impact of Loves Park Well #4. The well interference represents 6.8 to 29 percent of the present total available drawdown and was considered as having a minimum to moderate impact on Loves Park Well #3 because of the large amount of total available drawdown for wells completed in the Cambrian-Ordovician aquifer.

At present the available groundwater resource is able to meet the anticipated water demand of the Loves Park Well #4. Aquifer yield data suggests that future withdrawals may be inhibited because the present withdrawals are fast approaching the safe yield of the aquifer. Therefore, the potential for growth could be limited.

Should you have any questions or comments, please feel free to contact us.

Sincerely,  
ILLINOIS STATE WATER SURVEY

Mark W. Hampton  
Assistant Hydrologist  
Phone: (217) 333-1724

MWH:bh

WIN - Love Park 4

## State Water Survey Division

# ENR



Water Resources Building  
605 East Springfield Avenue  
P.O. Box 5050, Station A  
Champaign, Illinois 61820-9050  
217/333-2211

Illinois Department of  
Energy and Natural Resources

Northern Regional Office  
101 North Island Avenue  
Batavia, Illinois 60510  
(312) 879-6466

July 6, 1984

Illinois Environmental Protection Agency  
Division of Public Water Supply  
2200 Churchill Road  
Springfield, Illinois 62706

Gentlemen:

Attached are copies of test data for Well No. 4  
at Loves Park, Winnebago County. That data were  
collected by Milaeger Well and Pump Company.

Very truly yours,  
STATE WATER SURVEY DIVISION

Robert T. Sasman  
Hydrologist

RTS/jm  
Encl.



# Well Production Test

Milaeger Well and Pump Company  
Loves Park

Winnebago County

WELL NO. 4

Owner: Loves Park  
Location: WIN, non responsive  
Date of Test: 2/6/84  
Length of Test: 22 hours  
Aquifer: Sandstone (Aq Code 6697)  
Date Drilled: February 1984

## WELL DATA

Pumped Well  
Well No.: 4  
Depth: 1313'  
Driller: Milaeger Well and Pump Company  
Hole Record: 26" 0 - 370', 21½" 370-1313'  
Casing Record: 26" +1 to 90', 22" +2 to 370' (cemented)  
Screen Record: -  
Gravel Pack Record: -  
Pump & Power: Test turbine  
Surface Elevation: 888'  
Measuring Point: top of casing, 2' above LSD  
Measuring Equipment: -  
Water Sample: -  
Static Level: 200'  
Remarks:

# MILAEGER WELL AND PUMP CO., INC.

## LOVES PARK WELL #4

### DRILLERS LOG

<u>DEPTHS</u>	<u>THICKNESS</u>	<u>DESCRIPTION</u>	<u>FORMATION</u>
0-85	85	sand, gravel, clay	glacial drift
85-335	250	limestone	Galena Platte ville Dolomi
335-541	250	sandstone, white-fine	Glenwood-St. Peter Sandst.
541-585		sandstone, pink-coarse	
585-610	55	limestone, gray-hard	Trempealeau
610-615		limestone, gray-hard with shale streaks	
615-630		limestone, light brown-hard	
630-640		limestone, gray	
640-674	50	sandy limestone, pinkish with red shale streaks	Franconia
675-690		shale, red & gray, muddy & sandy	
690-707	160	sandstone, reddish brown, hard, sharp	Ironton- Galesville sandstone
707-727		sandstone, gray-hard	
727-740		sandstone, off-white, hard	
740-747		sandstone, white-very hard	
747-755		sandstone, limestone & shale, reddish, hard	
755-777		sandstone, pinkish, medium hard	
777-850		sandstone, white-fine soft	
850-895	347	shale, red-gray, hard	Eau Claire Dolomite
895-937		shale, hard, gray	
937-947		shale & limestone, very hard, gray	
947-963		sandstone & shale, hard-gray	
995-1069		sandstone, light gray, very hard	
1069-1197		sandstone, white, hard	
1197-1265	116	sandstone, gray, very hard	Undifferent- iated Mount
1265-1303		sandstone, pink, hard	Simon sandston
1303-1313		sandstone, pink with shale streaks, hard	



ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS  
DIVISION OF LAND/NOISE POLLUTION CONTROL ANALYSIS FORM

C 3941 FEB 23 84

Key for Determining Type of Monitoring Point

(S) Surface Water	(G) Ground Water	(L) Leachate	(X) Special
(1) Upstream	(1) Monitor Well	(1) Flow or seep	(1) Soil
(2) Mid-site	(2) Private well	(2) Pond	(2) Waste
(3) Downstream	(3) Spring	(3) Collection System	(3) Other
(4) Run-off	(4) Lysimeter		
(5) Impounded			

Name (Private Well, Stream, Spring, Impounded Water only)

L P C S M O I O SITE INVENTORY 20101501  
(1) (2) NUMBER (9) (15)  
MONITOR POINT 6104 DATE 2-22-84  
NUMBER (17) (20) COLLECTED (21) (26)

WINNEBAGO Co. - LPC REGION R  
LOVES PARK SAND PARK  
(Location) (Responsible Party)

Legal (1); Illegal (2); Indicate One: 2 Board Order (X)  
(28) (29)

Time Collected 9:00 a.m. Unable to collect sample (X)  
(31) (33) (30)  
Stick-up (31) (33) Depth to water 13.7 ft.  
(34) (36)  
Sample temp. 0 Background (X) (40)

Ground water sampled by (Indicate one): (1) Bailing; (4)  
(2) Pumping; (3) Other (Specify) BAILING

Sample Appearance: clear

Collector comments: filtered in office 2-22-84

Collected by D. Malyz Div. or Company WPC  
Transported by DLPC Div. or Company

LAB USE ONLY

Lab No. C003941  
Date Rec'd 2-23-84  
Rec'd by J. de Time 1:00 a.m.  
Sample temp. acceptable YES NO  
Sample properly preserved YES NO  
Date completed MAY -9-1984  
Date forwarded

Signature of Supervisor

Name Environmental Protection Agency  
Address Division of Laboratory Services  
of Lab 2121 W. Taylor Street  
Chicago, Illinois 60612

LPC21020

Lab Comments:

Hg < 0.00010  
(27) (36)

(37) (46)

(47) (56)

(57) (66)

RECEIVED

MAY 23

ILL. E.P.A. STATE OF ILLINOIS

LPC21030

PARAMETERS	RESULTS
27 X Alkalinity <sup>1</sup>	350
31 Ammonia as N	
37 X Arsenic As	0.002
44 X Barium Ba	0.02
49 BOD -5	
53 X Boron B	0.3
58 X Cadmium Cd	0.00
64 X Calcium Ca	86*
69 COD	
73 X Chloride Cl	29

LPC21040

27 X Chromium Cr (tot)	0.00
33 X Chromium Cr <sup>6</sup>	
39 X Copper Cu	0.00
45 X Cyanide <sup>2</sup> CN	0.00
52 Fecal Coli	
56 X Fluoride F	0.2
61 X Hardness CaCO <sub>3</sub>	320
65 X Iron Fe	0.1
70 X Lead Pb	0.00

LPC21050

27 X Magnesium Mg	38*
32 X Manganese Mn	0.23
38 X Mercury Hg	
45 X Nickel Ni	0.0
51 Nitrate-nitrite N	
56 Oil and Grease	
60 X Oil (Units)	7.7
63 X Phenolics	0.000
70 X Phosphorus P	NO BOTTLE
75 X Potassium K	1.7

LPC21060

27 X B.O.F. (180°C)	424
31 X Selenium Se	0.000
36 X Silver Ag	0.00
44 X Sodium Na	158
52 X TSS (mg/L)	492
53 X Sulfate SO <sub>4</sub>	10*
56 X Zinc Zn	0.0

\* Analyses are to be performed on unfiltered samples. Values exceeding no. of places shown are reported in the lab comments section. If necessary is to be determined as ppm of CuSO<sub>4</sub> at pH 4.5.  
2Cyanide is to be reported as free cyanide

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF LAND/NOISE POLLUTION CONTROL  
CHEMICAL ANALYSIS FORM

Key for Determining Type of Monitoring Point

(S) Surface Water	(2) Ground Water	(3) Leachate	(X) Special
(1) Upstream	(1) Monitor Well	(1) Flow or Deep	(1) Soil
(2) Mid-site	(2) Private well	(3) Pond	(2) Waste
(3) Downstream	(3) Spring	(3) Collection System	(3) Other
(4) Run-off	(4) Lysimeter		
(5) Impounded	(5) Public W.S.		

Name (Private Well, Stream, Spring, Impounded Water Only)

L P C S M D I S SITE INVENTORY NUMBER 20101501

MONITOR POINT NUMBER 6101 DATE COLLECTED 52281

Winnebago

Co. - LPC

REGION R

(27)

Loves Park

Rockford Park District

(Location)

(Responsible Party)

Legal (1); Illegal (2); Indicate One: 1 Board Order (X)

Time Collected 9:30 a.m. Unable to collect sample (X)

Stick-up 1.4 ft. Depth to water 19.4 ft.

Sample temp. 55° F Background (X)

Ground water sampled by (Indicate one): (1) Bailing; (2) Pumping; (3) Other (Specify) 2

Sample Appearance: Clear No Odor. TD=19.8; Pumped 2 volumes. Immediate recharge.

Collector comments: Previously sampled 4-13-81. Ground water may be polluted. 8 parameters exceeded stds.

K. Bardo DLPC Div. or Company  
K. Bardo DLPC Div. or Company

LAB USE ONLY

Lab No. 0005694

Date Rec'd 5-22-81

Time 3:45

Sample temp. acceptable YES NO

Sample properly preserved YES NO

Date completed

Date forwarded

Signature

Environmental Protection Agency  
Division of Laboratory Services  
3121 W. Taylor Street  
Chicago, Illinois 60612

LPCSMO20

Lab Comments:

RECEIVED

JUN 24 1981

ILL. E.P.A. - D.L.P.C.  
STATE OF ILLINOIS

Private Lab (X)

EPA Lab (X)

5694 MAY 22

PARAMETERS	RESULTS
27 Chromium Cr (total)	536
33 Chromium Cr <sup>6+</sup>	11.0
37 Arsenic As	
43 Barium Ba	1.9
49 BOD	
53 Cadmium Cd	1.0
59 Calcium Ca	0.00
69 COP	
73 Cyanide CN	25

27 Chromium Cr (total)	
33 Chromium Cr <sup>6+</sup>	
39 Copper Cu	0.00
45 Cyanide CN	
52 Fecal Coli	
56 Fluoride F	0.1
61 Hardness	140
65 Iron Fe	
70 Lead Pb	

27 Manganese Mn	
32 Manganese Mn	0.38
38 Mercury Hg	
46 Nickel Ni	
52 Nitrate-nitrite N	
56 Oil and Grease	0.1
60 pH (Units)	
62 Pesticides	0.00
70 Phosphorus P	
73 Potassium K	

27 Selenium Se	65.0
31 Silver Ag	
38 Sodium Na	
42 SS (mg/l)	
49 TSS (mg/l)	
53 Total Solids	4.0
56 Zinc Zn	

\*Analyses are to be performed on unfiltered samples. \*Values exceeding no. of places shown are reported in the lab comments section. Tests requested but not run shall not be explained in the lab comments section.

R.M.

3242-Plain

402-Plain

ENVIRONMENTAL PROTECTION AGENCY STATE OF ILLINOIS  
DIVISION OF LAND/AIR POLLUTION CONTROL ANALYSIS FORM

Key for Determining Type of Monitoring Point

(S) Surface Water	(G) Ground Water	(L) Leachate	(X) Special
(1) Upstream	(1) Monitor Well	(1) Flow or seep	(1) Soil
(2) Mid-site	(2) Private well	(2) Pond	(2) Waste
(3) Downstream	(3) Spring	(3) Collection System	(3) Other
(4) Run-off	(4) Lysimeter		
(5) Impounded			

Name (Private Well, Stream, Spring, Impounded Water only)

L P C S M O I O SITE INVENTORY  
(1) (8) (9) (16)

MONITOR POINT G I C I DATE 08 24 82  
NUMBER (17) (20) COLLECTED (21) (26)

Winnebago Co. - LPC REGION R  
(27)

Loves Park / Rockford Park District  
(Location) (Responsible Party)

Legal (1); Illegal (2); Indicate One: 2 Board Order (X)  
(28) (29)

Time Collected 9:20 a.m. Unable to collect sample (X)  
(30)

Stick-up 15 ft. Depth to water 13.4 ft.  
(31) (33) (from T.O.C.) (34) (36)

Sample temp. 58.0 F Background (X) . . .  
(37) (39) (40)

Ground water sampled by (Indicate one): (1) Bailing; 1  
(2) Pumping; (3) Other (Specify) (41)

Sample Appearance: Slightly silty, light brown,  
slight oil/solvent-like odor.

Collector comments: Pugged by bailing 3 volumes. TD = 40.1'  
Fast recharge. Also sampled for volatiles + solvents.

K. Bardo DLPC  
Collected by Div. or Company  
K. Bardo → D. Malysz DLPC → DWPC  
Transported by Div. or Company

LAB USE ONLY

Lab No. C000805

Date Rec'd 8.26.82  
Rec'd by [Signature] Time 12:00 a.m.  
p.m.

Sample temp. acceptable YES NO  
Sample properly preserved YES NO

Date completed  
Date forwarded SEP 10 1982

[Signature]  
Supervisor Signature

Name Division of Laboratory Services  
Address 2121 W. Taylor Street  
of Lab Chicago, Illinois 60612

LPCSM020  
Lab Comments:

(27) (36)  
(37) (46)  
(47) (56)  
(57) (66)  
(76)  
Private Lab (X)  
IEPA Lab (X) (77)

Analyses are to be performed on unfiltered samples. \*Values exceeding no. of places shown are reported in the lab comments section; tests requested but not run should also be explained in the lab comments section.

C00805 11-20-82

LPCSM030

PARAMETERS*	PPM*
27 Alkalinity <sup>1</sup>	X X X X
31 Ammonia as N	X X
37 Arsenic As	X
44 Barium Ba 1.0 X 1.3 X X X	
49 BOD -5	X X X X
53 Boron B	X X X X
58 Cadmium Cd	0.00 X
64 Calcium Ca 112 X	
69 COD	X X X X
73 Chloride Cl	X X X X

LPCSM040

27 Chromium Cr (tot)	0.00 X
33 Chromium Cr <sup>+6</sup>	X
39 Copper Cu 0.02 0.04 X X	
45 Cyanide <sup>2</sup> CN	X
52 Fecal Coli (7/100 ml)	X X X X
56 Fluoride F	X X X X
61 Hardness CaCO <sub>3</sub>	X X X X
65 Iron Fe 1.0 5.6 X X	
70 Lead Pb	0.00

LPCSM050

27 Magnesium Mg	35.4 X
32 Manganese MnO <sub>4</sub>	0.58 X X
38 Mercury Hg	X
46 Nickel Ni	0.6 X X
51 Nitrate-nitrite N	X X X X
56 Oil and Grease	X X X X
60 pH (Units)	X X X X
63 Phenolics 0.001 X 0.010	
70 Phosphorus P	X X X X
76 Potassium K	26.9 X X

LPCSM060

27 R.O.E. (180°C)	X X X X
31 Selenium Se	X
36 Silver Ag	0.00 X X
44 Sodium Na	28.4 X X X
49 SC (unhos/cm)	X X X X
53 Sulfate SO <sub>4</sub>	X X X X
58 Zinc Zn	0.00 X X X X
63	

<sup>1</sup>Alkalinity is to be determined as ppm of CaCO<sub>3</sub> at pH 4.5.

<sup>2</sup>Cyanide is to be reported as free cyanide.  
STATE OF ILLINOIS

H.W.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF LAND/NOISE POLLUTION CONTROL  
CHEMICAL ANALYSIS FORM

Key for Determining Type of Monitoring Point

(S) Surface Water	(G) Ground Water	(L) Leachate	(X) Special
(1) Upstream	(1) Monitor Well	(1) Flow or seep	(1) Soil
(2) Mid-site	(2) Private well	(2) Pond	(2) Waste
(3) Downstream	(3) Spring	(3) Collection System	(3) Other
(4) Run-off	(4) Lysimeter		
(5) Impounded	(5) Public W S		

Name (Private Well, Stream, Spring, Impounded Water only)

L P C S M D I O SITE INVENTORY  
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16)

MONITOR POINT NUMBER 6101 DATE COLLECTED 041381

Winnebago

Co. - LPC REGION (27)

Loves Park

Rockford Park District

(Location) (Responsible Party)

Legal (1); Illegal (2); Indicate One: 2 Board Order (X) (29)

Time Collected 11:10 a.m. Unable to collect sample (X) (30)

Stick-up 1.4 ft. Depth to water 15.1 ft. (31) (33) (from I.O.C.) (34) (36)

Sample temp. Background (X) (37) (39) (40)

Ground water sampled by (Indicate one): (1) Bailing; (2) Pumping; (3) Other (Specify) 1 (41)

Sample Appearance: Slightly Silty - Brown, No Odor.

Collector comments: Removed 1 volume Fast Exchange. TD=128

Was a wet week.

Ken. Barbs

DLPC

Collected by

Div. or Company

K. Barbs

DLPC

Div. or Company

Transported by

LAB USE ONLY

Lab No.

C004993

Date Rec'd

4-14-81

Rec'd by

K. L. L. L.

Time

1:30

Sample temp. acceptable YES NO

Sample properly preserved YES NO

Date completed

Date forwarded MAY 15, 1981

Signature

Environmental Protection Agency

Name

Address

of Lab

2121 W. Taylor Street

Chicago, Illinois 60612

LPCSM020

Lab Comments:

\* Insufficient Sample

RECEIVED

MAY 1 1981

ILL. E.P.A. - D.L.P.C.

STATE OF ILLINOIS

Private Lab (X)

IEPA Lab (X) (77)

\* Analyses are to be performed on unfiltered samples. \* Values exceeding no. of places shown are reported in the lab comments section; tests requested but not run should also be explained in the lab comments section.

R.M.

PARAMETERS	RESULTS
27	Aluminum $12.0 \times$
31	Ammonia as N $0.000$
37	Ammonia As $1.6 \times$
44	Barium Ba $< 3.0$
53	Boron B $1.1 \times$
58	Cadmium Cd $0.01 \times$
64	Calcium Ca $118.6$
69	Chloride Cl $23.1 \times$
73	Cobalt Co $0.00 \times$

PARAMETERS	RESULTS
27	Chromium Cr (total) $0.00 \times$
33	Chromium Cr <sup>6+</sup> $0.00 \times$
39	Copper Cu $0.08 \times$
45	Cyanide CN $0.00 \times$
52	Fluoride F $0.00 \times$
56	Hardness CaCO <sub>3</sub> $0.5 \times$
61	Iron Fe $0.5 \times$
65	Lead Pb $0.00 \times$
70	Manganese Mn $0.59 \times$
73	Mercury Hg $0.000$
76	Nickel Ni $0.00 \times$
79	Nitrate-nitrite N $6.9 \times$
82	Oil and Grease $1 \times$
85	pH (Units) $7.7 \times$
88	Phenol $0.013 \times$
91	Phosphorus P $0.00 \times$
94	Potassium K $29.1 \times$

PARAMETERS	RESULTS
27	Selenium Se $0.00 \times$
31	Silver Ag $0.00 \times$
37	Sodium Na $31.9 \times$
44	Sulfate SO <sub>4</sub> $982 \times$
49	Sulfide S $0.1 \times$
53	Tin Sn $0.00 \times$
58	Titanium Ti $0.00 \times$
64	Zinc Zn $0.00 \times$